

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P841958

Luminaire Tested: **ARCH4-250-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36900 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

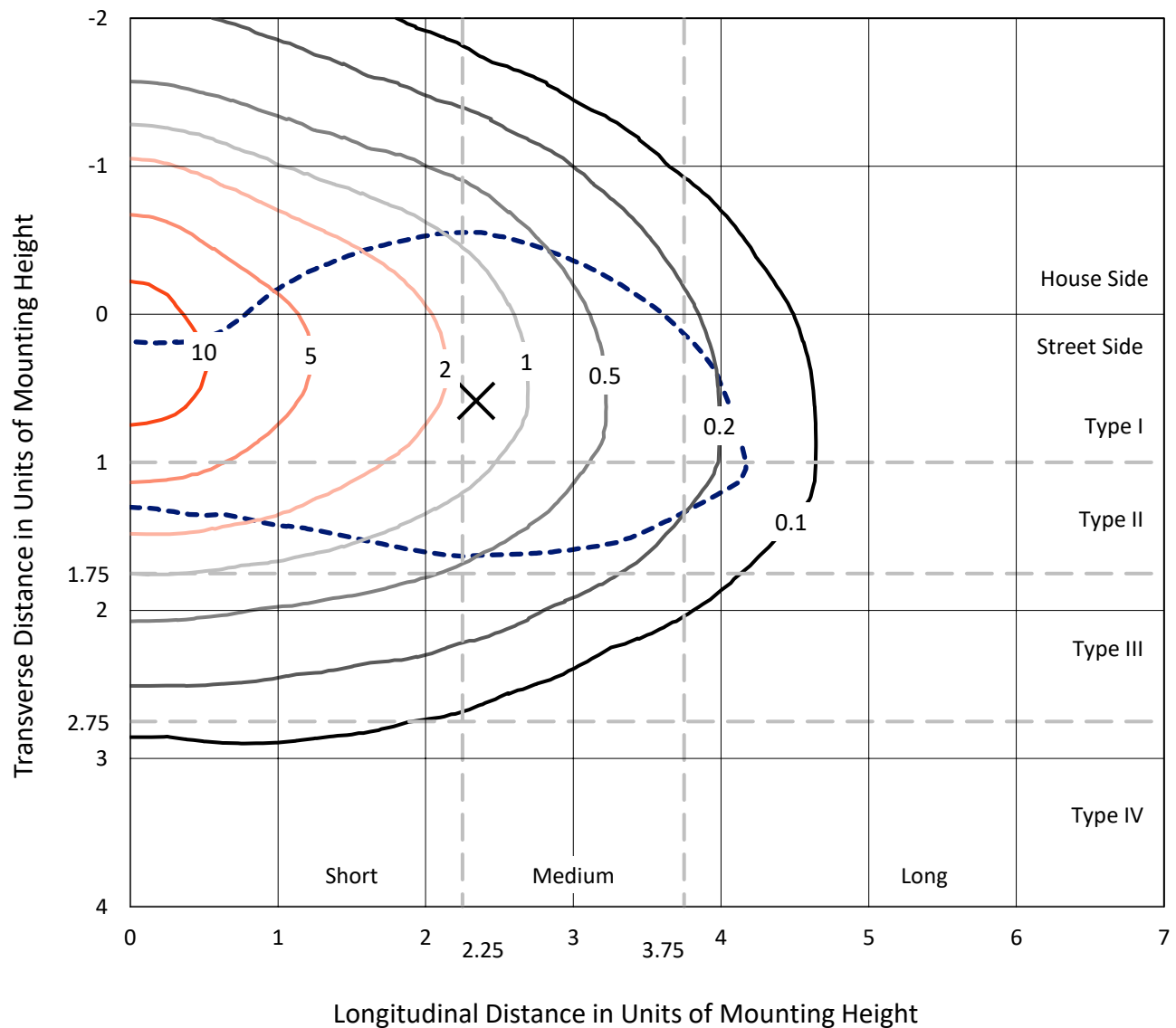
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841958
CATALOG NUMBER: ARCH4-250-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

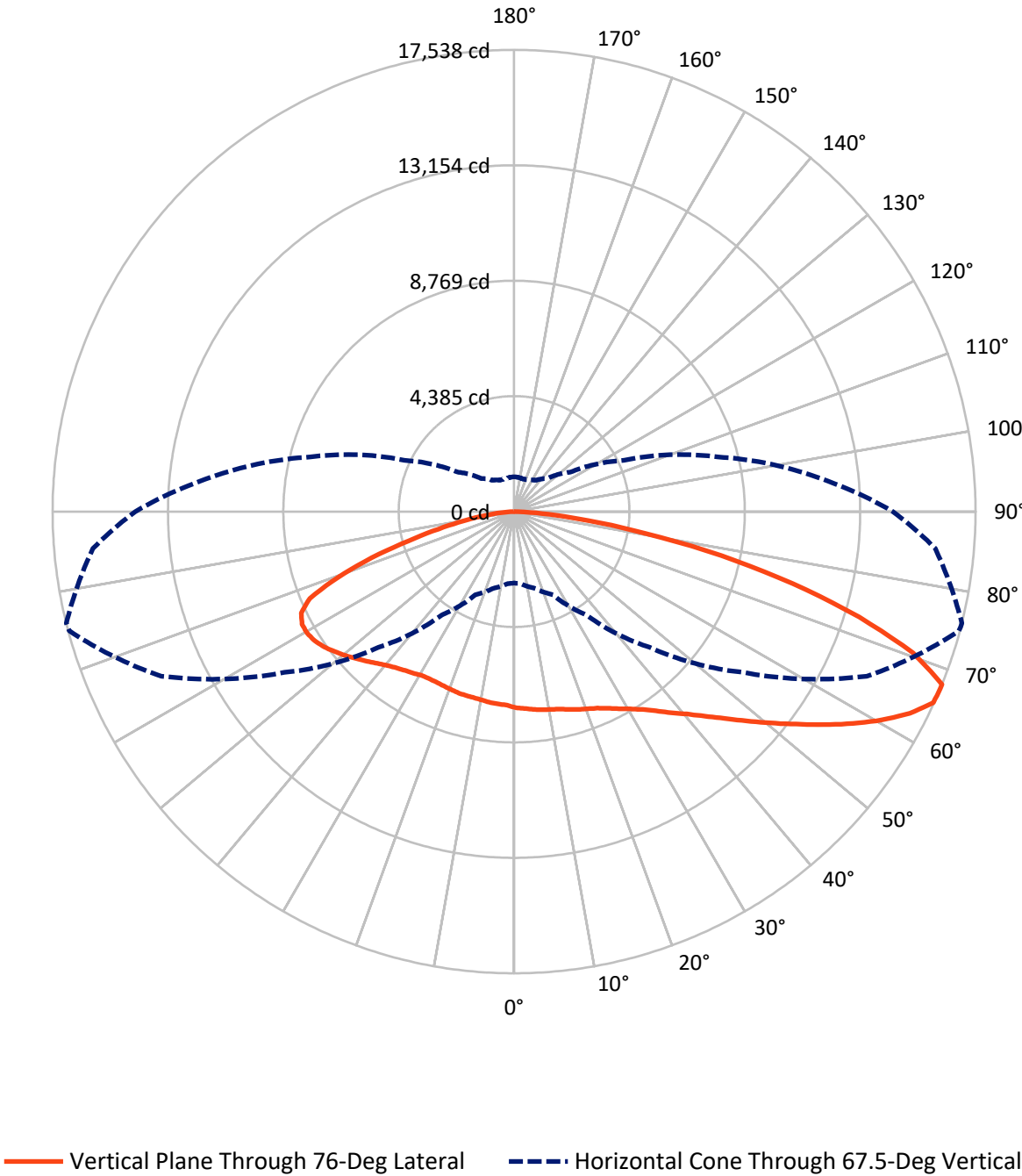
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Medium - N/A

REPORT NUMBER: P841958
CATALOG NUMBER: ARCH4-250-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841958

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12468.7	0.0	12468.7
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	24431.3	0.0	24431.3
	% Fixture	66.2	0.0	66.2
Total	Lumens	36900.0	0.0	36900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.7	1.9
10°-20°	2197.3	6.0
20°-30°	3733.3	10.1
30°-40°	5312.1	14.4
40°-50°	6708.9	18.2
50°-60°	7263.6	19.7
60°-70°	6756.0	18.3
70°-80°	3628.6	9.8
80°-90°	581.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36900.0	100.0
0°-180°	36900.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841958

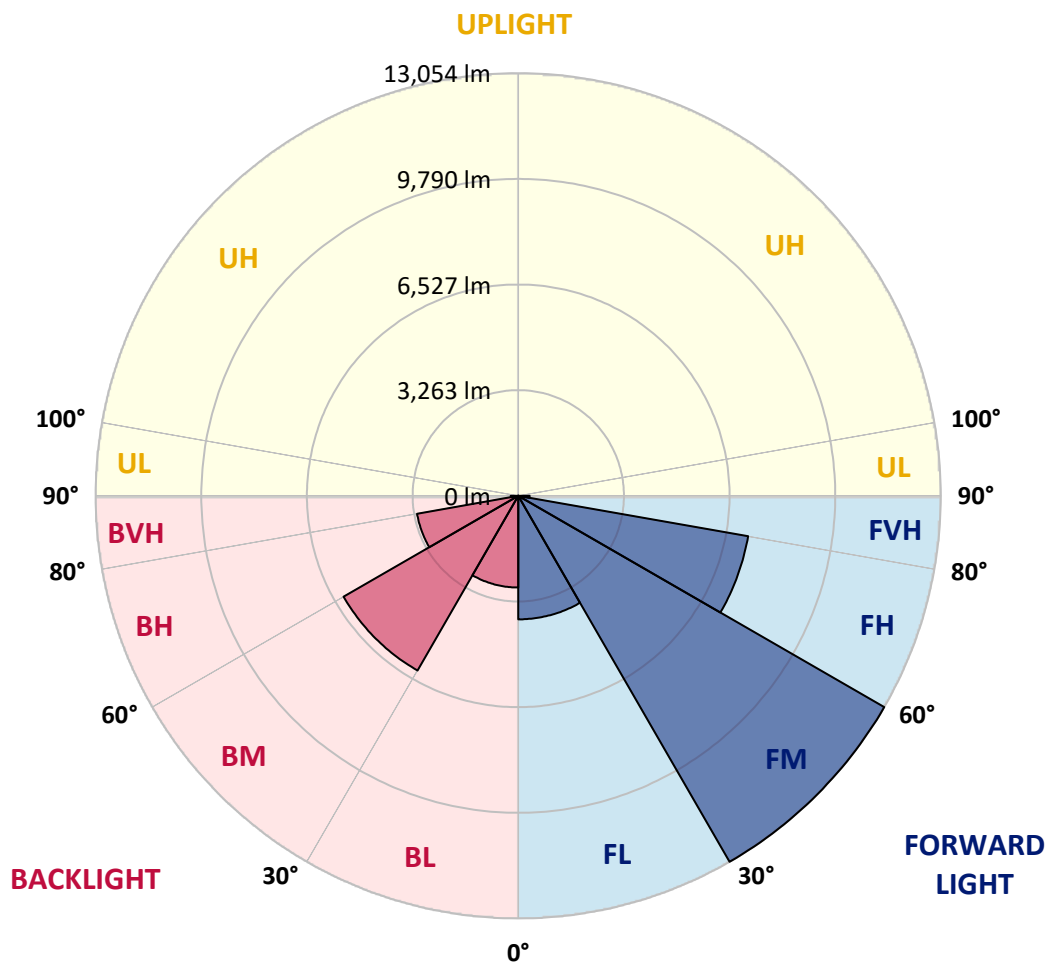
CATALOG NUMBER: ARCH4-250-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3815.9	10.3			
FM	(30°-60°)	13053.8	35.4			
FH	(60°-80°)	7209.9	19.5			G3/7500
FVH	(80°-90°)	351.7	1.0			G3/500
BL	(0°-30°)	2833.6	7.7	B4/5000		
BM	(30°-60°)	6230.8	16.9	B4/8500		
BH	(60°-80°)	3174.6	8.6	B4/5000		G4/5000
BVH	(80°-90°)	229.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



REPORT NUMBER: P841958

CATALOG NUMBER: ARCH4-250-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7
2.5°	7679.8	7666.1	7611.3	7618.1	7618.1	7611.3	7529.1	7494.8	7494.8	7488.0	7412.6
5°	7953.8	7933.3	7871.6	7857.9	7830.5	7796.3	7666.1	7590.7	7556.5	7549.6	7446.9
7.5°	8275.8	8248.4	8173.1	8132.0	8063.4	7974.4	7810.0	7693.5	7611.3	7604.4	7460.6
10°	8597.8	8570.4	8481.3	8406.0	8310.1	8166.2	7953.8	7782.6	7652.4	7638.7	7467.4
12.5°	8981.5	8954.1	8844.4	8748.5	8604.7	8412.8	8132.0	7899.0	7720.9	7700.3	7488.0
15°	9385.7	9344.6	9234.9	9125.3	8947.2	8700.6	8364.9	8056.6	7830.5	7796.3	7549.6
17.5°	9721.3	9666.5	9577.5	9467.9	9269.2	8981.5	8597.8	8214.2	7933.3	7905.9	7611.3
20°	10009.1	9968.0	9872.1	9769.3	9556.9	9241.8	8817.0	8371.7	8029.2	7994.9	7659.2
22.5°	10283.1	10228.3	10173.5	10098.1	9865.2	9515.8	9070.5	8563.6	8152.5	8111.4	7720.9
25°	10598.3	10536.6	10516.0	10474.9	10200.9	9844.7	9378.8	8803.3	8323.8	8275.8	7830.5
27.5°	10988.8	10920.2	10879.1	10879.1	10550.3	10180.4	9707.6	9084.2	8522.5	8481.3	7967.5
30°	11399.8	11317.6	11255.9	11255.9	10886.0	10516.0	10029.6	9365.1	8748.5	8700.6	8145.7
32.5°	11762.9	11680.7	11612.2	11605.3	11221.7	10851.7	10365.3	9673.4	9022.6	8960.9	8364.9
35°	12043.8	11968.4	11906.8	11920.5	11557.4	11194.3	10742.1	10084.4	9365.1	9296.6	8652.6
37.5°	12215.1	12187.7	12153.4	12201.4	11865.7	11523.1	11132.6	10481.8	9755.6	9693.9	9008.9
40°	12304.1	12283.6	12420.6	12482.2	12126.0	11817.7	11523.1	10892.8	10180.4	10111.8	9419.9
42.5°	12434.3	12605.6	12660.4	12646.7	12317.8	12043.8	11879.4	11338.1	10680.5	10618.8	9913.2
45°	11968.4	11927.3	12228.8	12393.2	12331.5	12187.7	12215.1	11872.5	11262.8	11201.1	10481.8
47.5°	11345.0	11290.2	11461.5	11865.7	12105.4	12242.5	12516.5	12427.4	11934.2	11879.4	11146.3
50°	10029.6	10105.0	10742.1	11283.3	11756.0	12228.8	12770.0	13023.5	12674.1	12619.3	11858.8
52.5°	8570.4	8645.8	9310.3	10557.2	11331.3	12126.0	12954.9	13619.5	13475.6	13414.0	12619.3
55°	7508.5	7672.9	8426.5	9330.8	10728.4	11804.0	13064.6	14229.2	14338.8	14284.0	13448.2
57.5°	6453.5	6576.8	7145.4	7947.0	9906.3	11242.2	13057.7	14797.8	15243.1	15188.3	14290.9
60°	5213.5	5371.1	5823.2	6686.4	8810.2	10570.9	12865.9	15243.1	16113.2	16072.1	15106.1
62.5°	4364.0	4411.9	4733.9	5480.7	7398.9	9721.3	12434.3	15482.9	16901.0	16873.6	15839.2
65°	3514.5	3521.3	3815.9	4439.3	6035.6	8666.3	11701.2	15393.8	17497.1	17510.8	16366.7
67.5°	2712.9	2747.2	3014.4	3487.1	4795.6	7296.1	10653.1	14791.0	17503.9	17538.2	16065.2
70°	1877.1	1904.5	2308.7	2767.7	3706.3	5816.4	9234.9	13194.7	16065.2	16092.6	14400.5
72.5°	1322.2	1335.9	1767.5	2212.8	2897.9	4384.5	6967.3	10913.4	13694.8	13715.4	12112.3
75°	986.5	1000.2	1246.9	1678.5	2219.7	3034.9	4761.3	8358.0	10940.8	10940.8	9563.8
77.5°	698.8	705.6	808.4	1157.8	1479.8	2048.4	2863.7	5473.8	8029.2	8042.9	6967.3
80°	472.7	479.6	527.5	781.0	924.9	1109.8	1555.1	2870.5	5062.8	5083.3	4425.6
82.5°	246.6	260.3	294.6	397.3	465.9	616.6	801.5	1459.2	2802.0	2856.8	2658.1
85°	95.9	95.9	109.6	130.2	171.3	239.8	369.9	554.9	1267.4	1308.5	1171.5
87.5°	34.3	34.3	41.1	41.1	48.0	54.8	61.7	82.2	143.9	143.9	137.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841958

CATALOG NUMBER: ARCH4-250-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7	7453.7
2.5°	7385.2	7385.2	7351.0	7364.7	7357.8	7344.1	7330.4	7351.0	7330.4	7282.4	7275.6
5°	7398.9	7385.2	7330.4	7323.6	7303.0	7275.6	7241.3	7255.0	7220.8	7179.7	7172.8
7.5°	7405.8	7378.4	7303.0	7275.6	7234.5	7179.7	7124.9	7124.9	7076.9	7035.8	7029.0
10°	7392.1	7357.8	7255.0	7200.2	7124.9	7042.7	6967.3	6946.8	6891.9	6844.0	6844.0
12.5°	7398.9	7351.0	7220.8	7131.7	7029.0	6926.2	6830.3	6802.9	6754.9	6707.0	6700.1
15°	7440.0	7371.5	7207.1	7090.6	6939.9	6823.4	6720.7	6700.1	6659.0	6624.8	6624.8
17.5°	7481.1	7392.1	7186.5	7022.1	6837.1	6707.0	6611.1	6611.1	6583.7	6563.1	6563.1
20°	7501.7	7398.9	7145.4	6926.2	6713.8	6576.8	6487.7	6501.5	6494.6	6487.7	6487.7
22.5°	7549.6	7412.6	7111.2	6837.1	6583.7	6439.8	6357.6	6378.1	6371.3	6371.3	6378.1
25°	7625.0	7446.9	7083.8	6754.9	6460.3	6302.8	6213.7	6227.4	6227.4	6227.4	6227.4
27.5°	7727.8	7515.4	7076.9	6679.6	6337.0	6158.9	6049.3	6049.3	6021.9	6028.7	6035.6
30°	7885.3	7645.5	7090.6	6611.1	6206.9	5980.8	5850.6	5830.1	5823.2	5836.9	5843.8
32.5°	8077.1	7823.7	7172.8	6563.1	6069.8	5782.1	5617.7	5610.8	5590.3	5590.3	5590.3
35°	8316.9	7994.9	7248.2	6556.3	5932.8	5569.7	5391.6	5371.1	5323.1	5302.6	5302.6
37.5°	8625.2	8262.1	7337.3	6508.3	5816.4	5364.2	5151.8	5083.3	5028.5	5021.7	5021.7
40°	9002.0	8563.6	7467.4	6453.5	5693.1	5151.8	4871.0	4754.5	4761.3	4788.7	4788.7
42.5°	9447.3	8933.5	7631.8	6426.1	5514.9	4932.6	4542.1	4405.1	4453.0	4480.5	4487.3
45°	9968.0	9372.0	7816.8	6391.8	5350.5	4686.0	4192.7	4021.4	4042.0	4048.8	4055.7
47.5°	10570.9	9858.4	8008.6	6364.4	5165.5	4377.7	3809.1	3583.0	3576.1	3535.0	3548.7
50°	11201.1	10372.2	8207.3	6316.5	4939.5	4014.6	3404.9	3137.7	3082.9	3021.2	3028.1
52.5°	11872.5	10899.7	8392.3	6241.1	4658.6	3644.6	3021.2	2733.5	2623.9	2555.4	2569.1
55°	12612.4	11440.9	8570.4	6124.7	4364.0	3274.7	2678.7	2384.1	2247.1	2192.3	2199.1
57.5°	13290.6	11961.6	8700.6	5980.8	4042.0	2939.0	2377.2	2089.5	2000.4	1993.6	2000.4
60°	13948.3	12400.0	8755.4	5782.1	3713.2	2630.7	2096.4	1877.1	1815.5	1849.7	1856.6
62.5°	14503.2	12680.9	8728.0	5514.9	3377.5	2336.1	1870.3	1712.7	1671.6	1740.1	1747.0
65°	14825.2	12770.0	8536.2	5131.3	3014.4	2048.4	1657.9	1486.6	1466.1	1507.2	1527.7
67.5°	14400.5	12215.1	8015.5	4603.8	2610.2	1781.2	1452.4	1315.4	1281.1	1315.4	1315.4
70°	12763.1	10584.6	6782.3	3768.0	2164.9	1520.9	1260.6	1164.6	1137.2	1164.6	1157.8
72.5°	10632.5	8803.3	5343.7	2939.0	1705.9	1281.1	1096.1	1007.1	979.7	952.3	938.6
75°	8248.4	6686.4	3877.6	2158.0	1288.0	1027.6	918.0	835.8	767.3	794.7	781.0
77.5°	6042.4	4692.8	2747.2	1493.5	924.9	794.7	719.3	657.7	609.7	664.5	657.7
80°	3891.3	3034.9	1836.0	1000.2	637.1	554.9	527.5	493.3	541.2	705.6	719.3
82.5°	2377.2	1925.1	1096.1	650.8	417.9	369.9	342.5	342.5	554.9	609.7	616.6
85°	1061.9	1020.8	596.0	335.7	232.9	212.4	191.8	246.6	226.1	164.4	171.3
87.5°	171.3	178.1	130.2	116.5	89.1	89.1	68.5	48.0	34.3	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)